

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/CA 03/00323

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N5/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

MEDLINE, BIOSIS, EMBASE, EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | KENNEDY J F ET AL: "HUMAN OOCYTES MATURATION IN CHEMICALLY DEFINED MEDIA" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 164, 1 April 1969 (1969-04-01), pages 1292-1293, XP002088101 ISSN: 0036-8075 figure 1; table 1 ----- -/-- | 39-61 |

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

21 July 2003

Date of mailing of the international search report

14. 11. 03

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | <p>MALAMITSI-PUCHNER ARIADNE ET AL: "Concentrations of angiogenic factors in follicular fluid and oocyte-cumulus complex culture medium from women undergoing in vitro fertilization: Association with oocyte maturity and fertilization." FERTILITY AND STERILITY, vol. 76, no. 1, July 2001 (2001-07), pages 98-101, XP002248449 ISSN: 0015-0282 the whole document</p> | 39-61 |
| X | <p>WATSON RICHARD ET AL: "Reverse transcription with nested polymerase chain reaction shows expression of basic fibroblast growth factor transcripts in human granulosa and cumulus cells from in vitro fertilisation patients." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 187, no. 3, 1992, pages 1227-1231, XP001153727 ISSN: 0006-291X the whole document</p> | 39-61 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/03/00323

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-38
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; It is covered by claims Nos.:
39-61 (partly)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Claims Nos.: 1-38

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 39-61 (partly)

Method for in vitro maturation of immature human oocytes in a culture medium comprising fibroblast growth factor.

Invention 2: claims 39-61 (partly)

Method for in vitro maturation of immature human oocytes in a culture medium comprising epidermal growth factor.

Inventions 3-22: claims 42-60

The addition of each component from a hormone, insulin, transferrin, a vitamin, hydrocortisone, selenite, an inorganic salt, an energy source, an amino acid, or a component from table 1 in combination with either FGF or EGF constitutes a separate invention or group of inventions.

Invention 23: claim 61

Method for in vitro maturation of immature human oocytes in a culture medium comprising a growth factor in the absence of cumulus cells.

Invention 24: claims 62-67

Method for in vitro maturation of immature human oocytes in a culture medium comprising components as set forth in Table 2.